

Commonwealth of Kentucky
Division for Air Quality
EXECUTIVE SUMMARY

FINAL
TITLE V (INITIAL) No. V-05-076
CELANESE, LTD.
CALVERT CITY, KY
SEPTEMBER 20, 2007
COMPLETED BY: JULIAN BRECKENRIDGE
SOURCE I.D. # 21-157-00055
SOURCE A.I. # 40292
ACTIVITY # APE20040001

SOURCE DESCRIPTION:

On September 30, 2002, Celanese, Ltd. of 408 North Main Street, Calvert City, KY 42029 applied to the Kentucky Division for Air Quality for a permit to operate/construct an Industrial Chemical Manufacturing plant at 408 North Main Street, Calvert City, KY 42029. The source produces polyvinyl alcohol (PVOH) using vinyl acetate, methanol, sodium hydroxide, and a peroxide catalyst. Acetic acid is produced as a byproduct. The potential to emit, as defined in 401 KAR 52:001, Section 1 (56) of volatile organic compounds (VOC), carbon monoxide (CO) and nitrogen oxides (NOx) as regulated air pollutants is greater than one hundred (100) tons per year; and the potential to emit of single and combined hazardous air pollutants (HAPs) is greater than 10 and 25 tons per year, respectively. Therefore, the source is a major source and is subject to the provisions of 401 KAR 52:020 for a Title V program. The application was deemed complete on December 12, 2002.

The issuance of an initial Title V permit required a preliminary determination and public notice that was done by the Division. An advertisement was placed in the *Marshall County Tribune Courier* in Benton, Kentucky on April 11, 2007. The thirty-day comment period had expired with comments received from Celanese, Ltd. of Calvert City, Kentucky on May 11, 2007.

U.S. EPA REVIEW:

The Division has issued the proposed permit on July 26, 2007. The U.S. EPA was also notified of the issuance of the proposed permit on that date via e-mail. The comment period expired 45 days from the date of e-mail. No comments were received during this period. The permit is now being issued final.